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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/563,580	01/06/2006	Masahiro Matsumoto	056205.57291US	3656
	7590 05/16/2007 MORING LLP	EXAMINER		
INTELLECTU	AL PROPERTY GROU	MAI, SON LUU		
P.O. BOX 1430 WASHINGTO	00 N, DC 20044-4300	ART UNIT	PAPER NUMBER	
WIGHINGIO	11, 20 200 11 1500		2827	
		MAIL DATE	DELIVERY MODE	
	•		05/16/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application	No.	Applicant(s)				
		10/563,580		MATSUMOTO ET AL.				
		Examiner		Art Unit				
		Son L. Mai		2827				
The MAILING DATE of a Period for Reply	this communication app	pears on the c	over sheet with the co	orrespondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) Responsive to commun	ication(s) filed on 06 Ja	anuary 2006						
2a) ☐ This action is FINAL .		action is non	-final.					
•	, —							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)⊠ Claim(s) <u>1-8</u> is/are pend	☑ Claim(s) <u>1-8</u> is/are pending in the application.							
4a) Of the above claim(s	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are al	Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-3</u> is/are rejec	Claim(s) <u>1-3</u> is/are rejected							
7)⊠ Claim(s) <u>4-8</u> is/are object	Claim(s) <u>4-8</u> is/are objected to.							
8) Claim(s) are subj	8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers								
9)⊠ The specification is object	cted to by the Examine	er.						
10)⊠ The drawing(s) filed on <u>⟨</u>	06	: a)⊠ accept	ted or b) dobjected	to by the Examin	er.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing shee	et(s) including the correcti	tion is required	if the drawing(s) is obje	ected to. See 37 Cl	FR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119			·					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
1. Certified copies of	1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s)								
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date								
 Information Disclosure Statement(s) 			Notice of Informal Pa					
Paper No(s)/Mail Date <u>01/06/06</u> . 6) ☐ Other:								

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DETAILED ACTION

- 1. Papers filed 01/06/06 have been entered. Claims 1-8 are present for examination.
- 2. The Information Disclosure Statement filed 01/06/06 has been considered.
- 3. The drawings are approved.
- 4. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Lamberg et al. (U.S. Patent Application Publication No. US 2004/0090120).

Regarding claim 1, Lamberg et al. discloses a backup circuit (figure 1) disposed between a digital circuit (6, 7) including a storage circuit and a power supply terminal (Vpp) for supplying power to said digital circuit, and including a backup capacitor (C3) for supplying a backup voltage to said digital circuit when the power is cut off, thereby holding information stored in said storage circuit, wherein said backup circuit includes devices (M3, M2, D3) which are capable of being formed by a standard CMOS process (paragraph [0025]), which are disposed between said power supply terminal (Vpp) and

said backup capacitor (C3), and which serve as resistors when the power is normally supplied to said power supply terminal, and as diodes each operating with a backward direction thereof defined as the direction from said digital circuit toward said power supply terminal when the power is cut off.

Regarding claim 2, Lamberg et al. teaches the backup circuit according to claim 1, wherein said devices are MOS transistors (paragraph [0025]), and gate terminals of said MOS transistors are connected to a ground potential (through R4 and M2).

Regarding claim 3, Lamberg et al. shows in figure 1, the MOS transistors (M1, M2) are connected in series in plural number.

Allowable Subject Matter

7. Claims 4-8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: The prior art of record fails to teach at least a shift means for shifting said digital circuit to a power low-consumption state when a voltage at said power supply terminal drops to a level not higher than a predetermined voltage.

Conclusion

8. The prior art made of record cited on Form PTO-892 is considered pertinent to applicant's disclosure.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Son L. Mai whose telephone number is 571-272-1786. The examiner can normally be reached on M-F from 8am to 6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on 571-272-1852. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

05/11/07

Son L. Mai Primary Examiner Art Unit 2827